Form PTO-1449 (Rev. 2-32)	U Pepartment of Commerce ent & Trademark Office	Atty. Docket No. ASI0004	PE Serial No. 09/598,750	
	DISCLOSURE STATEMENT eral sheets if necessary)	Applicant Norman D. GEDDES, et al.		
		Filing Date June 22, 2000	Group 212 -2761	

		June 22, 2000		~2701		
100 and 100 and		U.S. PATEN	IT DOCUMENTS			v.
Examiner Initial	Document Number	Date	Name	Class	Sub- Class	Filing Date (if appropriate)
A	6,049,742	4/11/00	Milne, et al.	700	99	9/26/97
A	6,026,375	2/15/00	Hall, et al.	705	26	12/5/97
CA .	6,012,152	1/4/00	Douik, et al.	714	26	8/21/97
A	6,012,051	1/4/00	Sammon, Jr., et al.	706	52	2/6/97
A.	6,012,044	1/4/00	Maggioncalda, et al.	705	36	5/25/99
A	6,006,192	12/21/99	Cheng, et al.	705	7	3/12/97
A	5,983,200	11/9/99	Slotznick	705	26	10/6/97
À	5,974,395	10/26/99	Bellini, et al.	705	9	8/21/96
A)	5,963,447	10/5/99	Kohn, et al.	364	148.04	8/22/97
9	5,953,707	9/14/99	Huang, et al.	705	10 ·	2/21/97
H	5,918,207	6/29/99	McGovern, et al.	705	1	5/1/96
C#I	5,905,715	5/18/99	Azarmi, et al.	370	244	9/1/95
A.	5,893,083	4/6/99	Eshghi, et al.	706	45	3/19/96
A	5,845,258	12/1/98	Kennedy	705	8	6/16/95
Ø	5,754,850	5/19/98	Janssen	395	615	12/10/96
Ø	5,732,398	3/24/98	Tagawa	705	5	11/9/95
A	5,724,263	3/3/98	Raguram, et al.	364	552	5/30/97
Ja	5,712,960	1/27/98	Chiopris, et al.	395	77	4/15/96
4	5,706,406	1/6/98	Pollock	395	55	5/22/95
Q	5,644,727	7/1/97	Atkins	395	240	12/6/94
A	5,586,254	12/17/96	Kondo, et al.	395	200.1	2/16/93
#	5,583,763	12/10/96	Atcheson, et al.	364	551.01	9/9/93
4	5,550,746	8/27/96	Jacobs	364	479.01	12/5/94
A	5,434,952	7/18/95	Yen, et al.	395	50	6/26/92
7	5,428,619	6/27/95	Schwartz, et al.	371	20.1	11/14/94
QA .	5,406,477	4/11/95	Harhen	364	401	6/10/94

N':	598,2		10/25/04	Do4 -1	270	220	Sheet 2 of		
**	ļ	5,359,649	10/25/94	Rosu, et al.	379	220	10/2/91		
A	ļ	5,299,287	3/29/94	Tsuruta, et al.	395	51	2/21/92		
A		5,167,010	11/24/92	Elm, et al.	395	50	8/3/89		
A		4,881,230	11/14/89	Clark, et al.	OBPIE	20.1	10/5/87		
1.0		F(OREIGN PAT	ENT DOCUME T	S IAU				
				夏	AN 1 1 2001	e e			
	OT	HER DOCUMEN	TS (Including	Author, Title, Date,	Pertinent Par	ges, Etc.)			
Q	•		100	rn Materials Handli		The State of the S	nuary, 2000.		
-		Jedd, Marcia, "Th	e Next Big Thi	ing," World Trade,	v. 12, n. 2, pp	o. 60-62, Fe	bruary, 1999		
	1			d Kizza, C. S., (1998			····		
\mathcal{Q}				onal Conference on					
(A)	'	October 11-14, 19			o j 0.01110, 1.111		,		
Λ.				J. (1998) Intelligent	Control for A	lutomated	Vehicles: A		
(¥	-			rdination of Multipl					
XI		AUVSI '98 25 th A	nnual Sympos	ium and Exhibition,	June 8-12, 1	998, Hunts	ville, AL		
$\overline{\bigcirc}$		Collis, J. C. and L	ee, L. C., Build	ding Electronic Mar	ketplaces wit	h the ZEUS	S Agent Tool-		
*	1.	Kit, Agent Mediat	ed Electronic (Commerce, First Int	ernational W	orkshop on	Agent		
,,	•	Mediated Electror	nic Trading, AN	MET-98, May 10, 19	998, Minnea <mark>r</mark>	oolis, MN.			
Or	1	Geddes, N. D., (19	997) A Portabl	e Lightweight Assoc	iate For Urb	an Helicop	ter Pilotage,		
At .	'	16 th AIAA Digital Avionics Systems Conference, October, 1997, Irvine, CA							
Qt		Geddes, N. D., (1997) Associate Systems: A Framework for Human-Machine							
***	,	Cooperation, HCI	Conference, A	August 24-29, 1997,	San Francisc	o, CA			
Q		Geddes, N. D., (19	997) Human C	entered Approaches	to Mixed Ini	tiative Plar	ining, May 6		
*	(1997, DARPA P&	DA Program						
O#		Wegner, Peter, "V	Vhy Interaction	is More Powerful	Than Algorith	nms," Com	munications		
<i>7</i> 4	•	of the ACM, v. 40,							
QL			, –	le Models of Coope					
A	•	•		Conference and Wor	-	igineering o	of Computer		
		,	<u> </u>	ch 24-28, 1997, Mo					
Q.			_	ent Agents: Interne		nhancers, 1	19 th Annual		
	٠.			nference, PTC '97, p	<u>- </u>				
Ψ		"Smart Move in a	Networked W	orld," <i>Computer Re</i>	seller News,	1997, n. 73	1, p. 117.		
		Ross, Julie Ritzer,	"Intelligent A	gent" Test Probes (Consumers' C	n-Line Sho	opping Needs		
A		Stores, v. 78, n. 11		_					
0				(1996) A Shared M	odel of Inten	tions for Fi	ree Flight,		
+	.	· ·		stems Conference,	•	-	_		
V		Atlanta, GA	,	,	,		,		
			Technology:	Fingers That Shop	Around Retai	ling Faces	on Upheava		
1	,			on the Internet, Fina					
4		September 24, 199	-	. - ,) I = -)		
	 						~		
$\bigcap L$		Andersen Profect	: Examines Ho	w Electronic Merch	ants Can Bet	ter Larget (Justomers."		
Qt.	\ \v	_		w Electronic Merch n. 17, p. 1(2), Septe		_	Justomers,"		

rial No. 09	1376,1	Sheet 3 of
Q.		Experiment Examines How Electronic Merchants Can Better Target Customers in Cyberspace," Business Wire, p. 8271291, August 27, 1996.
		Renwei, Li and Pereira, L. M., Knowledge-Based Situated Agents Among Us, Intelligent
Q	•	Agents III, Agent Theories, Architectures and Languages, ECAI '96 Workshop: August
V		12-13, 1996, Budapest, Hungary.
M		Laborie, P. and Ghallab, M., Planning With Sharable Resource Constraints, IJCAI-95
\mathcal{H}	"	Proceedings of the 14 th International Joint Conference on Artificial Intelligence, vol. 2, pp. 1643-9, August 20-25, 1995, Montreal, Quebec, Canada.
	-	Correll, James G., "Re-Engineering the MRP II Environment: The Key is Successfully
G	1	Implementing Change," <i>IIE Solutions</i> , v. 27, n. 7, pp. 24-27, July, 1995.
$\overline{\Omega}$		Shalin, V. L. and Geddes, N. D., (1994) Task Dependent Information Management in a
H.		Dynamic Environment: Concept and Measurement Issues, IEEE 1994.
$\overline{\bigcirc}$		Geddes, N. D., (1994) A Model for Intent Interpretation for Multiple Agents with
V	~	Conflicts, IEEE International Conference on Systems, Man and Cybernetics, October 2-5
•		1994, San Antonio, TX
1		Soutchanski, M. and Ternovskaia, E., Logical Formalization of Concurrent Actions for
\forall		Multi-Agent Systems, Intelligent Agents, ECAI-94 Workshop on Agent Theories,
	•	Architectures and Languages, August 8-9, 1994, Amsterdam, Netherlands.
()		Etzioni, Oren and Weld, Daniel, "A Softbot-Based Interface to the Internet,"
- 	'	Communications of the ACM, v. 37, n. 7, pp. 72-76, July, 1994.
		Eklund, Peter W., "Research Developments in Multiple Inheritance with Exceptions,"
7		The Knowledge Engineering Review, v. 9, n. 1, pp. 21-55, March, 1994.
^		Shalin, V. L., Geddes, N. D., Mikesell, B., and Ramamurthy, M., (1993) Evidence for
()		Plan-Based Performance and Implications for Information Management on the
	`	Commercial Aviation Flight Deck, 4th International Conference on Human-Machine
1		Interaction and AI in Aerospace, September, 1993, Toulouse, France
1 ()		Shalin, V. L., Geddes, N. D., et al., (1993) Expertise in Dynamic Physical Task Domains
#7	\	To appear in Feltovich, P., for, K. & Hoffman, R. (Eds.), Expertise in Context: Human and Machine
J	-	Miller, C. A., Shalin, V. L., Geddes, N. D., and Hoshstrasser, B., (1992) <i>Plan-Based</i>
a d		Information Requirements: Automated Knowledge Acquisition to Support Information
(124)		Management in an Intelligent Pilot-Vehicle Interface, Proceedings of the 11th Digital
711		Avionics Systems Conference, Seattle, WA, 1992
\bigcap		Geddes, N. D., Pullum, L., and Hoffman, M. A., (1992) Intelligent Interfaces in
$\bigcup_{i=1}^{n}$.	Command and Control Systems, Proceedings of IEEE Conference on C31 Technology
91		and Applications, June 1-4, 1992, Rome, NY
\bigcap	1	Shalin, V. L., Miller, C. A., Geddes, N. D., Hoshstrasser, B. D., and Levi, K. R., (1992)
4	`	AI Plan as Indicators of Human Information Requirements
$\overline{}$		Geddes, N. D., and Hammer, J. M., (1991) "Automatic Display Management Using
14	'	Dynamic Plans and Events," Proceedings of the 6 th Symposium on Aviation Psychology,
*,		May 6-11, 1991, Columbus, OH
1 0		Edwards, G. R., and Geddes, N. D., (1991) "Deriving a Domain-Independent Architectus
(H)	`	for Associate Systems From Essential Elements of Associate Behavior," Associate
To		Technology: Opportunity and Challenges, Lehner, P. E. (Editor), Fairfax, VA: George
		Mason University, June, 1991, pp. 17-29
M	,	Lizza, C. S., Banks, S. B., (1991) Pilot's Associate: A Cooperative, Knowledge-Based
11		System Application, DARPA Strategic Computing Initiative, IEEE Expert, June, 1991

Serial No. 09/5	598,7	50	Sheet 4 of 4			
. (11)		Chandrasekaran, B., Bhatnagar,	R., and Sharma, D. D., "Real-Time Listuribance Control," 34, n. 8, p. 32(16), August, 1991.			
X4	•					
~ 1			shstrasser, B. D., Miller, C. A., Levi, R., and			
(<i>)</i> #	4		rds a Theory of Pilot Information Requirements During			
***			n," Proceedings of CERT 90, Toulouse, France			
\bigcap		•	., (1990) "A Plan and Goal Based Method for Computer-			
#			Computer Interaction: INTERACT 90, New York:			
		North Holland, 283-288				
A	·		d Hammer, J. M., (1990) "Computer-Aided Fighter			
47		Pilots," IEEE Spectrum, March,				
\bigcirc	ı	I	A., (1990) "Supervising Unmanned Roving Vehicles			
4	¥		Through an Intelligent Interface," Proceedings of the 1990 Space Operations and			
		Robotics Conference, Albuquerq	· ·			
1			N. D., (1989) "OPAL: Operator Intent Inferencing for			
M I			tems," Proceedings of the IJCAI-89 Workshop on			
40	•		lligence in Aerospace Systems, Shalin, V. L. and Boy, G.			
		A. (Editors), August, 1989, Detro	The second secon			
\circ 1		l i	d Neste, L. O., (1989) "Information Management with a			
4	•	j'	' Proceedings of the National Computer Graphics			
		Association, Washington, DC	10 11 N.D. (1000) (T.C'. D'. 1			
\sim 1	ν,		and Geddes, N. D., (1988) "Information Display			
$ \swarrow $		Management in a Pilot's Associate," Proceedings of the 1988 Aerospace Applications of				
		Artificial Intelligence Conference				
ο 1			d Rouse, E. B., (1987) "Initial Evaluation of an			
At 1	•	Intelligent Interface for Operators of Complex Systems." In G. Salvendy (Eds), Cognitive Engineering in the Design of Human-Computer Interaction and Expert Systems (551-				
V		558), New York: Elsevier.	man-Computer Interaction and Expert Bysiems (551-			
		* *	d Curry, R. E., (1987) "An Architecture for Intelligent			
\mathcal{A}	،		ach to Supporting Operators of Complex Systems,"			
#		Human-Computer Interaction, 3				
			O., (1987) Design of an Intelligent Monitor for Human			
Qf			er presented at AIAA Computers in Aerospace VI			
W)	`	Conference, Wakefield, MA.				
~^		Geddes, N. D., (1986) "The Use	of Individual Differences in Inferring Human Operator			
	•	Intentions," Proceedings of the S	Second Annual Aerospace Applications of Artificial			
11		Intelligence Conference, 30-41.				
	,		ferencing Using Scripts and Plans," Proceedings of the			
A	•	First Annual Aerospace Applicat	tions of Artificial Intelligence Conference, 160-172.			
	•					
EXAMINER	($\rightarrow 1/1 ()$	DATE CONSIDERED,			
	X	(1 1/1/L)	6/19/03			
		741/11' T				

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication.

,	PTO/SB/08A (08-0

Approved for use through 10/31/2002. OMB 0651-0031 U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substit	ute for form 1449	9A/PTO		Complete if Known					
				Application Number	09/598 750				
INF	ORMATI	ON DIS	CLOSURE	Filing Date	06/22/2000				
NTZ	ATEMEN	T BY A	PPLICANT	First Named Inventor	GEDDES				
5				Group Art Unit	2761 2121				
(use as many sheets as necessary)				Examiner Name	Not Assigned Joseph P. Hipec				
Sheet	1	of	2	Attorney Docket Number	ASI0004-US				

U.S. PATENT DOCUMENTS									
	U.S. Patent Document		Name of Patentee or Applicant	Date of Publication of	Pages, Columns, Lines, Where Relevant				
Examiner Initials *	Cite No. ¹	Number	Kind Code ² (if known)	of Cited Document	Cited Document MM-DD-YYYY	Passages or Relevant Figures Appear			
XIA	A1	54427	31	Tanaka et al.	08-15-1995				
						P. Pa			
						10.			
						TO 1 6 200			
						Technology Cente			
						TOTOGY Center 2			
		-	-						
		†							

-	FOREIGN PATENT DOCUMENTS									
5	0:4-	For	eign Patent Do	cument	Name of Patentee	Date of Publication of	Pages, Columns, Lines, Where Relevant			
Examiner Cite Initials* No. ¹		Office ³	Number⁴	Kind Code ⁵ (<i>if known</i>)	or Applicant of Cited Document	Cited Document MM-DD-YYYY	Passages or Relevant Figures Appear	T ₆		
							_			
										
				_						

Examiner Signature	Da Co	ate onsidered	19/03
`.			

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark hee if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

heet

Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449A/PTO Complete if Known **Application Number** 09/598 750 **₩**FORMATION DISCLOSURE 06/22/2000 Filing Date 2002STATEMENT BY APPLICANT First Named Inventor **GEDDES** Group Art Unit 2761 (use as many sheets as necessary) **Examiner Name** Not Assigned ASI0004-US Attorney Docket Number

		OTHER PRIOR ART NON PATENT LITERATURE DOCUMENTS	
Examiner	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
A	B1 ,	Naoki KANAI, Shinji YOKOI, Koichi FUKUNAGA, and Yoshio TOZAWA, "An Expert System To Assist Production Planning", International Workshop on Artificial Intelligence for Industrial Applications 1998, IBM Research, Tokyo	
		JAN 1 Technology Co	A B
		JAN 1	IVE
		Technology	2002
		O) CE	nter 2
Examiner Signature		Date Considered 6 /18/03	

*EXAMINER: Initial if reference of sidered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231, DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.

Form PTO-1449 (Rev. 2-32) U.S. Department of Commerce Patent & Trademark Office INFORMATION DISCLOSURE STATEMENT			Atty. Docket No. ASI0004-US Serial No. 09/598,750					
nuc		several sheets if necessary)		Applicant Norman D. GEDDES, et al.				
				Filing Date June 22,	, 2000	Group	2121 -2761	
			U.S. PATEN	T DOCUMENTS				
Examiner Initial		Document Number	Date	Name	Class	Sub- Class	Filing Date (if appropriate)	
	-							
					i			
		FC	REIGN PAT	ENT DOCUMEN	TS			
	O	THER DOCUMENT	S (Including	Author, Title, Date	e, Pertinent Pag	ges, Etc.)		
	(Written Opinion fo date).	r Application	No. PCT/US01/19	9714, dated Ma	y 18, 2002	(mailing	
	-							
EXAMINER				DATE CONSIDI	ERED 6/	18/03		
EXAMINER: In		ation considered, whether or not lered. Include copy of this form			line through citation if	not in conformat	nce and not	

39317/262557 WSHLIB01:126055 RECEIVED
AUG 2 0 2002
GROUP 3600

Form PTO-1449 (Rev. 2-32) U.S. Department of Commerce Patent & Trademark Office INFORMATION DISCLOSURE STATEMENT				Atty. Docket No. ASI0004-US		Serial No. 09/598,750	
(Use several sheets if necessary)				Applicant Norman D. GEDDES, et al.			
				Filing Date June 22, 2000		Group	217/ 2761
		1	U.S. PATEN	T DOCUMENTS			
Examiner Initial		Document Number	Date	Name	Class	Sub- Class	Filing Date (if appropriate)
						!	
					RECEIVED.		
					AL	G 2 8 200	2
					Technolo	gy Center	2100
		FOI	REIGN PAT	ENT DOCUMEN	_1 ГЅ		
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
H	,	Preliminary Examination Report for Application No. PCT/US01/19716, dated July 22, 2002 (mailing date).					
<i>V</i>							
EXAMINER (DATE CONSIDERED 6/18/03			
EXAMINER: In		ation considered, whether or not or ered. Include copy of this form w			line through citation if	not in conformat	nce and not

39317/262557 WSHLIB01:126615

RECEIVED

AUG 2 9 2002

GROUP 3600